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4	0	(attach$4 same (meta-data or (meta adj data))) same obtain$4 same identif$4 same binar$4 same access$4 same set$4	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/02 15:13

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2	34	((binar$3 same data same search$3) and (meta-data or (meta adj data))) and (generat$4 same (meta-data or (meta adj data)))	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/02 14:47
3	28	(((binar$3 same data same search$3) and (meta-data or (meta adj data))) and (generat$4 same (meta-data or (meta adj data)))) and digital$1	USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB	2004/11/02 14:47

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1 Fast detection of communication patterns in distributed executions   ▬
Thomas Kunz, Michiel F. H. Seuren
November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**
Full text available: 📄 pdf(4.21 MB)   Additional Information: full citation, abstract, references, index terms

> Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

2 Information quality-driven data integration: A general framework for query answering in ▬
data quality-based Cooperative Information Systems
June 2004 **Proceedings of the 2004 international workshop on Information quality in informational systems**
Full text available: 📄 pdf(126.15 KB)   Additional Information: full citation, abstract, references

> Data quality in Cooperative Information Systems (CISs) which integrate a number of local heterogeneous database systems is an increasingly important issue. Current in-practice developed CISs are based on different software and architectural paradigms, and are specified a number of ad-hoc algorithms for quality query-answering, without an unifying logic framework (differently from well defined semantics in data integration systems). The consequence is that each software system responds in some wa ...

3 Semantic and schematic similarities between database objects: a context-based   ▬
approach
Vipul Kashyap, Amit Sheth
December 1996 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 5 Issue 4
Full text available: 📄 pdf(287.44 KB)   Additional Information: full citation, abstract, citings, index terms

> In a multidatabase system, schematic conflicts between two objects are usually of interest only when the objects have some semantic similarity. We use the concept of *semantic proximity*, which is essentially an *abstraction/mapping* between the domains of the two objects associated with the *context of comparison*. An explicit though partial context representation is proposed and the specificity relationship between contexts is defined. The contexts are organized as a meet semi-l ...

4 Technical reports   ▬

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SIGACT News Staff
January 1980 **ACM SIGACT News**, Volume 12 Issue 1
Full text available: 📄 pdf(5.28 MB)   Additional Information: full citation

5 Special system-oriented section: the best of SIGMOD '94: QuickStore: a high performance mapped object store
Seth J. White, David J. DeWitt
October 1995 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 4 Issue 4
Full text available: 📄 pdf(2.58 MB)   Additional Information: full citation, abstract, references, citings

QuickStore is a memory-mapped storage system for persistent C++, built on top of the EXODUS Storage Manager. QuickStore provides fast access to in-memory objects by allowing application programs to access objects via normal virtual memory pointers. This article presents the results of a detailed performance study using the OO7 benchmark. The study compares the performance of QuickStore with the latest implementation of the E programming language. The QuickStore and E systems exemplify the two ba ...

Keywords: benchmark, client-server, memory-mapped, object-oriented, performance, pointer swizzling

6 Spatial and temporal content-based access to hypervideo databases
Haitao Jiang, Ahmed K. Elmagarmid
December 1998 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 7 Issue 4
Full text available: 📄 pdf(241.17 KB)   Additional Information: full citation, abstract, index terms

Providing content-based video query, retrieval and browsing is the most important goal of a video database management system (VDBMS). Video data is unique not only in terms of its spatial and temporal characteristics, but also in the semantic associations manifested by the entities present in the video. This paper introduces a novel video data model called *Logical Hypervideo Data Model*. In addition to multilevel video abstractions, the model is capable of representing video entities that ...

Keywords: Ccontent-based query, Hot object, Hypervideo, Spatial and temporal constraint, Video database

7 Technique for automatically correcting words in text
Karen Kukich
December 1992 **ACM Computing Surveys (CSUR)**, Volume 24 Issue 4
Full text available: 📄 pdf(6.23 MB)   Additional Information: full citation, abstract, references, citings, index terms, review

Research aimed at correcting words in text has focused on three progressively more difficult problems:(1) nonword error detection; (2) isolated-word error correction; and (3) context-dependent work correction. In response to the first problem, efficient pattern-matching and n-gram analysis techniques have been developed for detecting strings that do not appear in a given word list. In response to the second problem, a variety of general and application-specific spelling cor ...

Keywords: n-gram analysis, Optical Character Recognition (OCR), context-dependent spelling correction, grammar checking, natural-language-processing models, neural net classifiers, spell checking, spelling error detection, spelling error patterns, statistical-language models, word recognition and correction

8 Mobile data management: Mimic: raw activity shipping for file synchronization in mobile

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file systems
Tae-Young Chang, Aravind Velayutham, Raghupathy Sivakumar
June 2004 **Proceedings of the 2nd international conference on Mobile systems, applications, and services**

Full text available: pdf(334.54 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

In this paper, we consider the problem of file synchronization when a mobile host shares files with a backbone file server in a network file system. Several *diff* schemes have been proposed to improve upon the transfer overheads of conventional file synchronization approaches which use full file transfer. These schemes compute the binary *diff* of the new file with respect to the old copy at the server and transfer the computed *diff* to the server for file-synchronization. Howev ...

Keywords: file synchronization, mobile file system, raw activity shipping

9 Binary translation and architecture convergence issues for IBM system/390
Michael Gschwind, Kemal Ebcioğlu, Erik Altman, Sumedh Sathaye
May 2000 **Proceedings of the 14th international conference on Supercomputing**

Full text available: pdf(1.44 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>index terms</u>

We describe the design issues in an implementation of the ESA/390 architecture based on binary translation to a very long instruction word (VLIW) processor. During binary translation, complex ESA/390 instructions are decomposed into instruction "primitives" which are then scheduled onto a wide-issue machine. The aim is to achieve high instruction level parallelism due to the increased scheduling and optimization opportunities which can be exploited by binary translation software ...

10 Workshop on compositional software architectures: workshop report
May 1998 **ACM SIGSOFT Software Engineering Notes**, Volume 23 Issue 3

Full text available: pdf(2.91 MB)   Additional Information: <u>full citation</u>, <u>index terms</u>

11 Deductive database languages: problems and solutions
Mengchi Liu
March 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 1

Full text available: pdf(254.50 KB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>, <u>review</u>

Deductive databases result from the integration of relational database and logic programming techniques. However, significant problems remain inherent in this simple synthesis from the language point of view. In this paper, we discuss these problems from four different aspects: complex values, object orientation, higher-orderness, and updates. In each case, we examine four typical languages that address the corresponding issues.

Keywords: complex object databases, deductive databases, inheritance, logic programming, nested relational databases, object-oriented databases

12 QuickStore: a high performance mapped object store
Seth J. White, David J. DeWitt
May 1994 **ACM SIGMOD Record , Proceedings of the 1994 ACM SIGMOD international conference on Management of data**, Volume 23 Issue 2

Full text available: pdf(1.73 MB)   Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, <u>citings</u>, <u>index terms</u>

This paper presents, QuickStore, a memory-mapped storage system for persistent C++ built on top of the EXODUS Storage Manager. QuickStore provides fast access to in-memory objects by allowing application programs to access objects via normal virtual memory

pointers. The paper also presents the results of a detailed performance study using the OO7 benchmark. The study compares the performance of QuickStore with the latest implementation of the E programming language. These systems exemplify ...

13 Requirements interaction management
William N. Robinson, Suzanne D. Pawlowski, Vecheslav Volkov
June 2003 **ACM Computing Surveys (CSUR)**, Volume 35 Issue 2

Full text available: pdf(1.24 MB)   Additional Information: full citation, abstract, references, index terms

Requirements interaction management (RIM) is the set of activities directed toward the discovery, management, and disposition of critical relationships among sets of requirements, which has become a critical area of requirements engineering. This survey looks at the evolution of supporting concepts and their related literature, presents an issues-based framework for reviewing processes and products, and applies the framework in a review of RIM state-of-the-art. Finally, it presents seven researc ...

Keywords: KAOS, KATE, Oz, Requirements engineering, Telos, WinWin, analysis and design, composite system, deficiency driven design, dependency analysis, distributed intentionality, interaction analysis, software cost reduction (SCR)., system architecture, system specification, viewpoints

14 Client-server computing in mobile environments
Jin Jing, Abdelsalam Sumi Helal, Ahmed Elmagarmid
June 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 2

Full text available: pdf(233.31 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Recent advances in wireless data networking and portable information appliances have engendered a new paradigm of computing, called mobile computing, in which users carrying portable devices have access to data and information services regardless of their physical location or movement behavior. In the meantime, research addressing information access in mobile environments has proliferated. In this survey, we provide a concrete framework and categorization of the various way ...

Keywords: application adaptation, cache invalidation, caching, client/server, data dissemination, disconnected operation, mobile applications, mobile client/server, mobile compuing, mobile data, mobility awareness, survey, system application

15 New data models and languages—the challenge
Catriel Beeri
July 1992 **Proceedings of the eleventh ACM SIGACT-SIGMOD-SIGART symposium on Principles of database systems**

Full text available: pdf(1.39 MB)   Additional Information: full citation, abstract, references, citings, index terms

New data models and languages have been the focus of attention in database research in the last decade. The object-oriented paradigm is a convenient vehicle for describing this research, its accomplishments, and for considering which directions are now interesting. This paper presents some concepts of object-oriented databases, and then considers recent interesting developments concerning query languages, object identities, views and meta-data.

16 DBMS implementation experience: A generalized DBMS implementation on a database machine
Asuman Dogac, Esen A. Ozkarahan
May 1980 **Proceedings of the 1980 ACM SIGMOD international conference on Management of data**

Full text available: pdf(1.20 MB)   Additional Information: full citation, abstract, references, citings

The design and implementation of a generalized database management system based on the RAP database machine is described. The GDBMS architecture, while is similar to the ANSI/SPARC view, has differences in the interpretation of its physical levels. The E/R model is chosen as the Meta Data Model (Conceptual Schema) which generates external model interfaces consisting of the relational, network, and hierarchical models. The SEQUEL, LSL, MRI --- like languages are supported at these interfaces. Str ...

Keywords: DDL, DML, E/R model query languages, GDBMS, RAP database machine, associative processors, data models, database machines, operational transformations, schemas, structural transformations

17 Answering queries using views: A survey

Alon Y. Halevy

December 2001 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 10 Issue 4

Full text available: pdf(308.74 KB)   Additional Information: full citation, abstract, citings, index terms

The problem of answering queries using views is to find efficient methods of answering a query using a set of previously defined materialized views over the database, rather than accessing the database relations. The problem has recently received significant attention because of its relevance to a wide variety of data management problems. In query optimization, finding a rewriting of a query using a set of materialized views can yield a more efficient query execution plan. To support the separat ...

Keywords: Data integration, Date warehousing, Materialized views, Query optimization, Survey, Web-site management

18 A Utility For The Generation Of A Preliminary Data/Dictionary Directory

Jon D. Clark

December 1978 **Proceedings of the 1978 annual conference**

Full text available: pdf(498.44 KB)   Additional Information: full citation, abstract, references, index terms

All Information Processing Systems (IPSs) consist of users, data, and algorithms. The algorithms draw upon the store of data to satisfy user requests. In order to process requests, however, a great deal of meta data, or data about data must be employed. The evolving technology of Data Base Management Systems (DBMSs) suggests that this meta data should reside in what is referred to as the Data Dictionary/Directory (DD/D). What is currently lacking both theoretically and in practice is a set ...

Keywords: Data base management systems, Data dictionary/directory, Initialization

19 Memory system characterization of commercial workloads

Luiz André Barroso, Kourosh Gharachorloo, Edouard Bugnion

April 1998 **ACM SIGARCH Computer Architecture News , Proceedings of the 25th annual international symposium on Computer architecture**, Volume 26 Issue 3

Full text available: pdf(1.68 MB) Additional Information: full citation, abstract, references, citings, index Publisher Site   terms

Commercial applications such as databases and Web servers constitute the largest and fastest-growing segment of the market for multiprocessor servers. Ongoing innovations in disk subsystems, along with the ever increasing gap between processor and memory speeds, have elevated memory system design as the critical performance factor for such workloads. However, most current server designs have been optimized to perform well on scientific and engineering workloads, potentially leading to design dec ...

20 The Integrated Dictionary/Directory System

Frank W. Allen, Mary E. S. Loomis, Michael V. Mannino

June 1982 **ACM Computing Surveys (CSUR)**, Volume 14 Issue 2

Full text available: pdf(2.71 MB)   Additional Information: full citation, references, citings, index terms

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1 **An automatic learning contents selector based on metadata standards**
Colace, F.; De Santo, M.; Molinara, M.; Percannella, G.;
Information Technology: Research and Education, 2003. Proceedings. ITRE2003.
International Conference on , 11-13 Aug. 2003
Pages:431 - 435

[Abstract]   [PDF Full-Text (462 KB)]   **IEEE CNF**

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2 **Category-based search using metadatabase in image retrieval**
Kmin Wu; Aidong Zhang;
Multimedia and Expo, 2002. ICME '02. Proceedings. 2002 IEEE International
Conference on , Volume: 1 , 26-29 Aug. 2002
Pages:197 - 200 vol.1

[Abstract]   [PDF Full-Text (344 KB)]   **IEEE CNF**

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3 **Design and implementation of metadata management system for WWW coursewares**
Gyo Sik Moon;
Frontiers in Education Conference, 2001. 31st Annual , Volume: 2 , 10-13 Oct.
2001
Pages:F1F - 6-10 vol.2

[Abstract]   [PDF Full-Text (334 KB)]   **IEEE CNF**

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4 **Object tracking and event recognition in biological microscopy videos**
Shotton, D.M.; Rodriguez, A.; Guil, N.; Trelles, O.;
Pattern Recognition, 2000. Proceedings. 15th International Conference
on , Volume: 4 , 3-7 Sept. 2000
Pages:226 - 229 vol.4

[Abstract]   [PDF Full-Text (524 KB)]   **IEEE CNF**

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5 **Ontology and metadata creation for the Poseidon distributed Coastal**

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Zone Management System

Wariyapola, P.C.H.; Abrams, S.L.; Robinson, A.R.; Streitlien, K.; Patrikalakis, N.M.; Elisseeff, P.; Schmidt, H.;
Research and Technology Advances in Digital Libraries, 1999. ADL '99. Proceedings. IEEE Forum on , 19-21 May 1999
Pages:180 - 189

[Abstract]   [PDF Full-Text (144 KB)]   **IEEE CNF**

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